Joseph R. Virgil
The Levy Company
900 Geo Nelson Drive
Portage, Indiana, 46368

Re: 127-12042-00024
First Significant Revision to
**FESOP 127-5567-00024**

Dear Mr. Virgil:

The Levy Company was issued a FESOP permit on December 12, 1996 for operation adjacent calumite and finishing plants (nonmetallic mineral processing). A letter requesting changes to this permit was received on March 13, 2000. Pursuant to the provisions of 326 IAC 2-8-11.1 a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the construction and operation of one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens at their calumite plant.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Management (OAM).

2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

3. Effective Date of the Permit
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.

4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.

5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

6. Prior to start of operation, the following requirements should be met:

(a) The attached affidavit of construction shall be submitted to the Office of Air Management (OAM), Permit Administration & Development Section, verifying that the facilities were constructed as proposed in the application. The facilities covered in the Construction Permit may begin operating on the date the Affidavit of Construction is postmarked or hand delivered to IDEM.

(b) If construction is completed in phases; i.e., the entire construction is not done continuously, a separate affidavit must be submitted for each phase of construction. Any permit conditions associated with operation start up dates such as stack testing for New Source Performance Standards (NSPS) shall be applicable to each individual phase.

(c) Permittee shall receive an Operation Permit Validation Letter from the Chief of the Permit Administration & Development Section and attach it to this document.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Nishat Hydari, c/o OAM, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call 973-575-2555 (ext. 3216) or 1-800-451-6027 press 0 and ask for extension 3-6878.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

Attachments
NH/EVP
cc: File - Porter County
U.S. EPA, Region V
Porter County Health Department
Northwest Regional Office
Air Compliance Section Inspector - Dave Sampias
Compliance Data Section - Jerri Curless
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michelle Boner

# FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR MANAGEMENT

## The Levy Company
## 900 Geo Nelson Drive
## Portage, Indiana 47385

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 and 326 IAC 2-1-3.2, as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

| | |
|---|---|
| Operation Permit No.: F127-5567-00024 | |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Management | Issuance Date: December 12, 1996 |
| First Administrative Amendment: 127-9254-00024 | Issuance Date: January 7, 1998 |
| Second Administrative Amendment: 127-11252-00024 | Issuance Date: September 9, 1999 |

| | |
|---|---|
| First Significant Permit Revision: FSPR127-12042-00024 | Pages Affected: 4, 5, 24, 24a, 33 |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Management | Issuance Date: |

**SECTION A SOURCE SUMMARY**

A.1 General Information

The Permittee owns and operates adjacent calumite and finishing plants.

| | |
|---|---|
| Responsible Official: | **Joseph R. Virgil** |
| Source Address: | **900 Geo Nelson Drive, Portage, Indiana, 46368** |
| Mailing Address: | **P.O. Box 540. Portage, Indiana, 46368** |
| SIC Code: | **3295** |
| County Location: | **Porter** |
| County Status: | **Nonattainment for Ozone**<br>**Attainment for all other criteria pollutants** |
| Source Status: | **FESOP Program** |

A.2 Emission Units and Pollution Control Summary

The stationary source consists of the following emission units and pollution control devices:

(a) one (1) calumite plant slag dryer, identified as Cal-200 - item #207, with a maximum capacity of 65 tons per hour, equipped with one (1) No.2/No.4 fuel oil fired combustion unit with a maximum rated capacity of 49.3 million British thermal units per hour and one (1) baghouse, identified as item #237, for control of particulate matter emissions, exhausting at one (1) stack, identified as Stack #1.

(b) one (1) calumite plant screening tower consisting of screening, crushing, conveying, and railcar loadout with particulate matter controlled by three (3) dust collectors, identified as items #234, #232, and #233, exhausting from three (3) stacks, identified as Stacks #2, #3, and #4. Maximum throughput equals 65 tons per hour.

(c) One (1) crusher with a maximum capacity of 160 tons per hour, equipped with wet suppression control.

(d) One (1) horizontal screw conveyor with a maximum capacity of 42 tons per hour.

(e) One (1) bucket elevator with a maximum capacity of 300 tons per hour.

(f) Two (2) screens each with a maximum capacity of 88.5 tons per hour, equipped with wet suppression control.

(g) seven (7) finishing plant conveyors, identified as items #205, #208, #214, #215, #224, #227, and #228. Maximum combined throughput for six (6) open transfer points equals 600 tons per hour.

(h) five (5) finishing plant screens, identified as items #210, #211, #212, #213, and the scalping screen. Maximum combined throughput equals 1,365 tons per hour.

A.3 Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

(a) Unpaved roads

(b) Aggregate storage piles; handling and wind erosion.
(c) Two fuel oil storage tanks less than 10,000 gallons capacity.

(d) Welding for maintenance purposes.

(e) 12 gallon mineral spirits tank for degreasing metal parts.

A.4 FESOP Applicability [326 IAC 2-8-2]
This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

## SECTION D.1 CALUMITE FACILITY OPERATION CONDITIONS

(a) one (1) calumite plant slag dryer, identified as Cal-200 - item #207, with a maximum capacity of 65 tons per hour, equipped with one (1) No.2/No.4 fuel oil fired combustion unit with a maximum rated capacity of 49.3 million British thermal units per hour and one (1) baghouse, identified as item #237, for control of particulate matter emissions, exhausting at one (1) stack, identified as Stack #1.

(b) one (1) calumite plant screening tower consisting of screening, crushing, conveying, and railcar loadout with particulate matter controlled by three (3) dust collectors, identified as items #234, #232, and #233, exhausting from three (3) stacks, identified as Stacks #2, #3, and #4.

(c) One (1) crusher with a maximum capacity of 160 tons per hour, equipped with wet suppression control.

(d) One (1) horizontal screw conveyor with a maximum capacity of 42 tons per hour.

(e) One (1) bucket elevator with a maximum capacity of 300 tons per hour.

(f) Two (2) screens each with a maximum capacity of 88.5 tons per hour, equipped with wet suppression control.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

**Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

D.1.1 Particulate Matter
Pursuant to 326 IAC 6-3 (Process Operations) the particulate matter emissions from the slag dryer shall not exceed 47.1 lbs per hour.

D.1.2 Particulate Matter 10 Microns (PM-10)

(a) Pursuant to 326 IAC 2-8-4, particulate matter 10 micron emissions from the aggregate mixing and drying operations shall not exceed 10.36 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

(b) Pursuant to 326 IAC 2-8-4, particulate matter 10 micron emissions from the one (1) crusher shall not exceed 0.09 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

(c) Pursuant to 326 IAC 2-8-4, particulate matter 10 micron emissions from the one (1) screw conveyor and one (1) bucket elevator shall not exceed 0.48 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

(d) Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the two (2) screens shall not exceed 0.15 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

D.1.3 Calumite Plant Throughput
The Calumite plant total throughput shall not exceed 28,229 tons per 12 consecutive month period, rolled on a monthly basis.

D.1.4 Sulfur Dioxide ($SO_2$)
Pursuant to 326 IAC 7-1.1 (Sulfur Dioxide Emission Limitations), sulfur dioxide emissions from the 49.3 million Btu per hour burner for the slag dryer shall be limited to 0.5 pounds per million Btu heat input or a sulfur content of less than or equal to 0.49 percent when using fuel oils #2 and #4.

Therefore, the requirements of 326 IAC 2-7 will not apply.

**Testing Requirements [326 IAC 2-8-4(3)]**

D.1.5 Particulate Matter
During the period between 36 months and 48 months after issuance of this permit, the permittee shall perform PM and PM10 testing utilizing methods per 40 CFR Part 60 Appendix A, Method 5, 17, 40 CFR Part 51 Appendix M, Method 201, 201a, 202, as approved by the Commissioner. This test shall be repeated at least once every five years from the date of this valid compliance demonstration. PM10 includes filterable and condensible PM10.

D.1.6 Sulfur Dioxide
The Permittee or fuel supplier shall test for sulfur content of oil burned as fuel using 40 CFR Part 60, Appendix A, Method 19. This test shall be performed with each fuel delivery. Sulfur content tests may be performed by the oil supplier.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR MANAGEMENT
# COMPLIANCE DATA SECTION

## FESOP Quarterly Report

Source Name: The Levy Company
Source Address: Port of Indiana, Portage, Indiana 46368
FESOP No.: FSPR 127-12042-00024
Facility: Calumite Plant
Parameter: PM-10
Limits: Total material throughput for the Calumite Plant is limited to 28,229 tons per 12 consecutive month period, rolled on a monthly basis.

**Month: _____ Year: _____**

| Month | Material Throughput (tons) |
|---|---|
| | |
| | |
| | |

**9** No deviation occurred in this month.

**9** Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____

# Indiana Department of Environmental Management
# Office of Air Management

## Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit

### Source Background and Description

| | |
|---|---|
| **Source Name:** | The Levy Company |
| **Source Location:** | 900 Geo Nelson Drive, Portage, Indiana, 46368 |
| **County:** | Porter |
| **SIC Code:** | 3295 |
| **Operation Permit No.:** | F127-5567-00024 |
| **Operation Permit Issuance Date:** | December 12, 1996 |
| **Significant Permit Revision No.:** | FSPR 127-12042-00024 |
| **Permit Reviewer:** | Nishat Hydari / EVP |

The Office of Air Management (OAM) has reviewed a FESOP application from The Levy Company relating to the revision to the operation of the calumite plants (nonmetallic mineral processing).

### History

On March 13, 2000, The Levy Company submitted an application to the OAM requesting revisions to their existing FESOP which was issued on December 12, 1996. The revisions include addition of one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens.

### New Emission Units and Pollution Control Equipment Receiving Prior Approval

The application includes information relating to the prior approval for the construction and operation of the following equipment pursuant to 326 IAC 2-8-4(11):

(1) One (1) crusher with a maximum capacity of 160 tons per hour, equipped with wet suppression control;

(2) One (1) horizontal screw conveyor with a maximum capacity of 42 tons per hour;

(3) One (1) bucket elevator with a maximum capacity of 300 tons per hour; and

(4) Two (2) screens each with a maximum capacity of 88.5 tons per hour, equipped with wet suppression control.

### Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) OP 64-05-89-0184, issued on July 15, 1985;

(b) OP 64-05-89-0185, issued on July 15, 1985;

(c) OP 3420-0026-0260, issued on September 5,1990;

(d) OP 3420-0026-0261, issued on September 5, 1990;

(e) Registration 127-2845-00024, issued on February 18, 1993;

(f) Exemption 127-3799-00024, issued on July 11, 1994

(g) F127-5567-00024, issued on December 12, 1996;

(h) Amendment 127-9254-00024, issued on January 7, 1998; and

(i) Amendment 127-11252-00024, issued on September 9, 1999.

**Enforcement Issue**

There are no enforcement actions pending.

**Recommendation**

The staff recommends to the Commissioner that the Significant Permit Revision be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on March 13, 2000.

**Emission Calculations**

See Appendix A of this document for detailed emissions calculations (Appendix A, pages 1 through 2).

**Potential To Emit**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

| Pollutant | Potential To Emit (tons/year) |
|---|---|
| PM | 32.36 |
| PM-10 | 15.41 |
| $SO_2$ | 0.00 |
| VOC | 0.00 |
| CO | 0.00 |
| $NO_x$ | 0.00 |

(a) Fugitive Emissions

Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD and Emission Offset applicability.

**Justification for Modification**

The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM10 is greater than 5 tons per year but less than 25 tons per year. This source which would normally be granted a FESOP Minor Permit Revision is being modified through a FESOP Significant Permit Revision pursuant to 326 IAC 2.8-11.1(g)(2).

Notwithstanding the existence of an emission cap, the following changes shall be required to be reviewed in accordance with the procedures in 326 IAC 2.8-11.1(f).

Pursuant to 326 IAC 2.8-11.1(g)(2)
Any modifications that require an adjustment to the emission cap limitations.

**County Attainment Status**

The source is located in Porter County.

| Pollutant | Status |
|---|---|
| PM-10 | attainment |
| $SO_2$ | attainment |
| $NO_2$ | attainment |
| Ozone | severe nonattainment |
| CO | attainment |
| Lead | attainment |

(a) Volatile organic compounds (VOC) and oxides of nitrogen (NOx) are precursors for the formation of ozone. Therefore, VOC and $NO_X$ emissions are considered when evaluating the rule applicability relating to the ozone standards. Porter County has been designated as severe nonattainment for ozone.

**Limited Potential to Emit of Modification after Issuance**

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this FESOP Significant Permit Revision.

| | Limited Potential to Emit (tons/year) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Process/facility | PM | PM-10 | $SO_2$ | VOC | CO | $NO_X$ | Single HAP | HAPs |
| Cone Crusher (1) | 0.87 | 0.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Screw Conveyor (1) & Bucket Elevator (1) | 4.40 | 2.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Screens (2) | 1.37 | 0.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Emissions | 6.64 | 3.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

This modification to an existing minor stationary source is not major because the emission increase is less than the PSD significant levels. Therefore, pursuant to 326 IAC 2-2, and 40 CFR 52.21, the PSD requirements do not apply.

**Limited Potential to Emit of Entire Source**

| | Limited Potential to Emit (tons/year) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Process/facility | PM | PM-10 | $SO_2$ | VOC | CO | $NO_X$ | Single HAP | HAPs |
| Calumite Dryer Burner (existing) | -- | 0.14 | -- | -- | -- | -- | -- | -- |
| Calumite Drying (existing) | -- | 45.41 | -- | -- | -- | -- | -- | -- |
| Calumite conveying, screening, crushing (existing) | -- | 17.74* | -- | -- | -- | -- | -- | -- |
| Finishing conveying, screening loading (existing) | -- | 22.35 | -- | -- | -- | -- | -- | -- |
| Insignificant Sources (existing) | -- | 10.20 | -- | -- | -- | -- | -- | -- |
| New Emission Units (one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens) | -- | 3.16 | -- | -- | -- | -- | -- | -- |
| Total Emissions | -- | 99 | -- | -- | -- | -- | -- | -- |
| Title V Applicability Threshold | N/A | 100 | 100 | 100 | 100 | 100 | 100 | 10/25 |

*The PM10 emission cap limitation has been reduced from 20.87 tons/yr to 17.74 tons/yr in order to include the 3.16 tons/yr PM10 emission limitation of the new units. The source will still maintain its FESOP status.

Since the new emission units are being added to the calumite plant, the calumite conveying, screening and crushing operation PM10 emissions are being revised in order to include the PM10 emissions from the modification. The potential to emit PM10 of this source (which includes existing and new emission units) is less than 100 tons per year. Therefore, this source will still maintain its FESOP status.

**Federal Rule Applicability**

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

**State Rule Applicability - Entire Source**

326 IAC 1-6-3 (Preventive Maintenance Plan)

The source has submitted a Preventive Maintenance Plan (PMP) on March 13, 2000. This PMP has been verified to fulfill the requirements of 326 IAC 1-6-3 (Preventive Maintenance Plan).

326 IAC 2-6 (Emission Reporting)

This source is located in Porter County and the potential to emit VOC and $NO_X$ is less than ten (10) tons per year. The source is not one of the twenty-eight (28) listed sources and its potential to emit PM10 is less than one-hundred (100) tons per year including fugitive emissions, therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

326 IAC 6-3-2 (Process Operations)

(a) Pursuant to 326 IAC 6-3-2 (Process Operations), particulate matter (PM) from the one (1) cone crusher shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

$E = 4.10*(160)^{0.67} = 122.90$ lbs PM/hour

Based on the above equation, particulate matter emissions from the one (1) cone crusher shall be limited to 122.90 pounds per hour.

Compliance calculation:
(3.53 tons PM/yr) * (yr/8,760 hrs) * (2,000 lbs/ton) = 0.81 lbs PM/hr

Actual lbs PM/hr (0.81) is less than the allowable lbs PM/hr (122.90), therefore the cone crusher will comply with the requirements of 326 IAC 6-3-2.

(b) Pursuant to 326 IAC 6-3-2 (Process Operations), particulate matter (PM) from the one (1) screw conveyor and the one (1) bucket elevator shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

$E = 4.10*(342)^{0.67} = 204.45$ lbs PM/hour

Compliance calculation:
(4.40 tons PM/yr) * (yr/8,760 hrs) * (2,000 lbs/ton) = 1.00 lbs PM/hr

Actual lbs PM/hr (1.00) is less than the allowable lbs PM/hr (204.45), therefore the one (1) screw conveyor and the one (1) bucket elevator will comply with the requirements of 326 IAC 6-3-2.

(c) Pursuant to 326 IAC 6-3-2 (Process Operations), particulate matter (PM) from the two (2) screens shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour and P = process weight rate in tons per hour

$E = 4.10*(177)^{0.67} = 131.50$ lbs PM/hour

Compliance calculation:
(24.42 tons PM/yr) * (yr/8,760 hrs) * (2,000 lbs/ton) = 5.58 lbs PM/hr

Actual lbs PM/hr (5.58) is less than the allowable lbs PM/hr (131.50), therefore the two (2) screens will comply with the requirements of 326 IAC 6-3-2.

326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4, fugitive particulate matter emissions shall not be visible crossing the property lines.

**Compliance Requirements**

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens has applicable compliance monitoring conditions as specified below:

(a) Daily visible emissions notations of the screening, crushing, and conveying of the calumite plant shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For

processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

**Changes Proposed**

Bolded language has been added, the language with a line through it has been deleted:

The responsible official and source address have been revised in Section A.1. Also, total suspended particulates are removed from the county status line because they are no longer considered nonattainment.

A.1 General Information
The Permittee owns and operates adjacent calumite and finishing plants.

| | |
|---|---|
| Responsible Official: | **~~Mark Gramke~~ Joseph R. Virgil** |
| Source Address: | **~~Port of Indiana~~ 900 Geo Nelson Drive, Portage, Indiana, 46368** |
| Mailing Address: | **P.O. Box 540. Portage, Indiana, 46368** |
| SIC Code: | **3295** |
| County Location: | **Porter** |
| County Status: | **Nonattainment for Ozone ~~and Total Suspended Particulates~~ Attainment for all other criteria pollutants** |
| Source Status: | **FESOP Program** |

The emission unit description in Section A.2 has been revised to include the one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens.

A.2 Emission Units and Pollution Control Summary
The stationary source consists of the following emission units and pollution control devices:

(a) one (1) calumite plant slag dryer, identified as Cal-200 - item #207, with a maximum capacity of 65 tons per hour, equipped with one (1) No.2/No.4 fuel oil fired combustion unit with a maximum rated capacity of 49.3 million British thermal units per hour and one (1) baghouse, identified as item #237, for control of particulate matter emissions, exhausting at one (1) stack, identified as Stack #1.

(b) one (1) calumite plant screening tower consisting of screening, crushing, conveying, and railcar loadout with particulate matter controlled by three (3) dust collectors, identified as items #234, #232, and #233, exhausting from three (3) stacks, identified as Stacks #2, #3, and #4. Maximum throughput equals 65 tons per hour.

**(c) One (1) crusher with a maximum capacity of 160 tons per hour, equipped with wet suppression control.**

**(d) One (1) horizontal screw conveyor with a maximum capacity of 42 tons per hour.**

**(e) One (1) bucket elevator with a maximum capacity of 300 tons per hour.**

**(f) Two (2) screens each with a maximum capacity of 88.5 tons per hour, equipped**

**with wet suppression control.**

(~~e~~**g**) seven (7) finishing plant conveyors, identified as items #205, #208, #214, #215, #224, #227, and #228. Maximum combined throughput for six (6) open transfer points equals 600 tons per hour.

(~~d~~**h**) five (5) finishing plant screens, identified as items #210, #211, #212, #213, and the scalping screen. Maximum combined throughput equals 1,365 tons per hour.

The one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens have been added to Section D.1.

## SECTION D.1 CALUMITE FACILITY OPERATION CONDITIONS

(a) one (1) calumite plant slag dryer, identified as Cal-200 - item #207, with a maximum capacity of 65 tons per hour, equipped with one (1) No.2/No.4 fuel oil fired combustion unit with a maximum rated capacity of 49.3 million British thermal units per hour and one (1) baghouse, identified as item #237, for control of particulate matter emissions, exhausting at one (1) stack, identified as Stack #1.

(b) one (1) calumite plant screening tower consisting of screening, crushing, conveying, and railcar loadout with particulate matter controlled by three (3) dust collectors, identified as items #234, #232, and #233, exhausting from three (3) stacks, identified as Stacks #2, #3, and #4.

**(c) One (1) crusher with a maximum capacity of 160 tons per hour, equipped with wet suppression control.**

**(d) One (1) horizontal screw conveyor with a maximum capacity of 42 tons per hour.**

**(e) One (1) bucket elevator with a maximum capacity of 300 tons per hour.**

**(f) Two (2) screens each with a maximum capacity of 88.5 tons per hour, equipped with wet suppression control.**

**(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)**

The PM10 limits for the one (1) crusher, one (1) screw conveyor, one (1) bucket elevator and two (2) screens have been included in Section D.1.2.

D.1.2 Particulate Matter 10 Microns (PM-10)

**(a)** Pursuant to 326 IAC 2-8-4, particulate matter 10 micron emissions from the aggregate mixing and drying operations shall not exceed 10.36 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

**(b) Pursuant to 326 IAC 2-8-4, particulate matter 10 micron emissions from the one (1) crusher shall not exceed 0.09 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.**

**(c) Pursuant to 326 IAC 2-8-4, particulate matter 10 micron emissions from the one (1) screw conveyor and one (1) bucket elevator shall not exceed 0.48 pounds per**

**hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.**

**(d) Pursuant to 326 IAC 2-8-4, particulate matter 10 microns emissions from the two (2) screens shall not exceed 0.15 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.**

The calumite conveying, screening, crushing PM10 emission cap limitation has been reduced to 17.74 tons/yr in order to include the 3.16 tons/yr PM10 emission limitation of the new units. This reduction corresponds to a lower throughput for the calumite plant. Section D.1.3 has been revised to reflect the change in the throughput.

D.1.3 Calumite Plant Throughput

The Calumite plant total throughput shall not exceed ~~33,333~~ **28,229** tons per **12 consecutive** month **period**, ~~based on a fixed monthly limit.~~ **rolled on a monthly basis.**

The FESOP quarterly report has been revised to include the new calumite plant throughput.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR MANAGEMENT
# COMPLIANCE DATA SECTION

## FESOP Quarterly Report

Source Name: The Levy Company
Source Address: Port of Indiana, Portage, Indiana 46368
FESOP No.: F**SPR** 127-~~5567~~**12042**-00024
Facility: Calumite Plant
Parameter: PM-10
Limits: Total material throughput for the Calumite Plant is limited to ~~33,333~~ **28,229** tons per **12 consecutive** month **period, rolled on a monthly basis**.

**Month: _____ Year: _____**

| Month | Material Throughput (tons) |
|---|---|
| | |
| | |
| | |

**9** No deviation occurred in this month.

**9** Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____

**Conclusion**

The construction and operation of this calumite plant (nonmetallic mineral processing) shall be subject to the conditions of the attached proposed **Significant Permit Revision for a Federally Enforceable State Operating Permit No.: FSPR 127-12042-00024**.

**Appendix A: Emission Calculations**

**Company Name:** The Levy Company
**Address City IN Zip:** 900 Geo Nelson Drive, Portage, IN 46368
**CP#:** 127-12042
**Plt ID:** 127-00024
**Permit Reviewer:** Nishat Hydari / EVP

The following calculations determine the amount of emissions at the Calumite Plant. The emission factors are from AP-42 Table 11.19.2-2

**PM10 emissions before controls**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cone Crusher (1) | 160 | tons/hr x | 8760 | hrs/yr x | 0.0024 | lb/ton / | 2000 | lb/ton = | 1.68 | tons/yr | AP-42 Table 11.19.2-2 |
| Screw Conveyor (1) & Bucket Elevator (1) | 342 | tons/hr x | 8760 | hrs/yr x | 0.0014 | lb/ton / | 2000 | lb/ton = | 2.10 | tons/yr | AP-42 Table 11.19.2-2 |
| Screens (2) | 177 | tons/hr x | 8760 | hrs/yr x | 0.015 | lb/ton / | 2000 | lb/ton = | 11.63 | tons/yr | AP-42 Table 11.19.2-2 |
| **Total emissions before controls:** | | | | | | | | | **15.41** | **tons/yr** | |

**PM10 emissions after controls**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cone Crusher (1) | 160 | tons/hr x | 8760 | hrs/yr x | 0.00059 | lb/ton / | 2000 | lb/ton = | 0.41 | tons/yr | AP-42 Table 11.19.2-2 |
| Screw Conveyor (1) & Bucket Elevator (1) | 342 | tons/hr x | 8760 | hrs/yr x | 0.0014 | lb/ton / | 2000 | lb/ton = | 2.10 | tons/yr | AP-42 Table 11.19.2-2 |
| Screens (2) | 177 | tons/hr x | 8760 | hrs/yr x | 0.00084 | lb/ton / | 2000 | lb/ton = | 0.65 | tons/yr | AP-42 Table 11.19.2-2 |
| **Total emissions after controls:** | | | | | | | | | **3.16** | **tons/yr** | |

**PM emissions before controls**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cone Crusher (1) | 160 | tons/hr x | 8760 | hrs/yr x | 0.00504 | lb/ton / | 2000 | lb/ton = | 3.53 | tons/yr | AP-42 Table 11.19.2-2 |
| Screw Conveyor (1) & Bucket Elevator (1) | 342 | tons/hr x | 8760 | hrs/yr x | 0.00294 | lb/ton / | 2000 | lb/ton = | 4.40 | tons/yr | AP-42 Table 11.19.2-2 |
| Screens (2) | 177 | tons/hr x | 8760 | hrs/yr x | 0.0315 | lb/ton / | 2000 | lb/ton = | 24.42 | tons/yr | AP-42 Table 11.19.2-2 |
| **Total emissions before controls:** | | | | | | | | | **32.36** | **tons/yr** | |

**PM emissions after controls**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Cone Crusher (1) | 160 | tons/hr x | 8760 | hrs/yr x | 0.001239 | lb/ton / | 2000 | lb/ton = | 0.87 | tons/yr | AP-42 Table 11.19.2-2 |
| Screw Conveyor (1) & Bucket Elevator (1) | 342 | tons/hr x | 8760 | hrs/yr x | 0.00294 | lb/ton / | 2000 | lb/ton = | 4.40 | tons/yr | AP-42 Table 11.19.2-2 |
| Screens (2) | 177 | tons/hr x | 8760 | hrs/yr x | 0.001764 | lb/ton / | 2000 | lb/ton = | 1.37 | tons/yr | AP-42 Table 11.19.2-2 |
| **Total emissions after controls:** | | | | | | | | | **6.64** | **tons/yr** | |

**Appendix A: Emission Calculations**

**Company Name:** The Levy Company
**Address City IN Zip:** 900 Geo Nelson Drive, Portage, IN 46368
**CP#:** 127-12042
**Plt ID:** 127-00024
**Permit Reviewer:** Nishat Hydari / EVP

## Emissions before controls

| **Operation (Calumite Plant)** | **Throuhput** | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Storage Pile Batch Drop (fugitive): | 338,750 | tons/yr/operation | | | | | | |
| Conveyor Transfers (fugitive): | 338,750 | tons/yr/operation | | | | | | |
| | | | | | | | | |
| Storage Pile Batch Drop (fugitive): | 1 | operation x | 1.06E-04 | lb/ton of material / | 2000 | lbs/ton = | 0.02 | tons/yr |
| Conveyor Transfers (fugitive): | 1 | operation x | 1.4E-03 | lb/ton of material / | 2000 | lbs/ton = | 0.24 | tons/yr |
| | | | | | | **Total PM10 Fugitive Emissions:** | **0.26** | **tons/yr** |
| | | | | | | | | |
| Crushing & Screening (nonfugitive | 338,750 | tons/yr/operation | | | | | | |
| | | | | | | | | |
| Crushing & Screening (nonfugitive | 1 | operation x | 1.0E+00 | lb/ton of material / | 2000 | lbs/ton = | 169.38 | tons/yr |
| | | | | | | **Total PM10 Nonfugitive Emissions:** | **169.38** | **tons/yr** |
| | | | | | | | | |
| | | | | | | **Total PM10 Emissions:** | **169.63** | **tons/yr** |

## Emissions after controls

| | | | | | | |
|---|---|---|---|---|---|---|
| Batch drop and conveyor transfers (fugitive): | 0.26 | tons/yr x | 50.00% | emitted after controls = | **0.13** | **tons/yr** |
| | | | | | | |
| Crushing & Screening (nonfugitive): | 169.38 | tons/yr x | 10.40% | emitted after controls = | **17.62** | **tons/yr** |
| | | | | | | |
| | | | | **Total PM10 Emissions:** | **17.74** | **tons/yr** |